



APPLICATION NO.	FI	LING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
09/713,775 11/15/2000		11/15/2000	Jae-Young Jung	12568-002001 / OPP 000771	3088		
26161	7590	12/05/2003		EXAM	EXAMINER		
FISH & RICHARDSON PC YEE, DEBORAH					BORAH		
225 FRANK BOSTON,		0		ART UNIT	ART UNIT PAPER NUMBER		
,				1742			
				DATE MAIL ED: 12/05/2001	2		

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)	. 1 . k
	09/713,775 .	JUNG, JAE-YOUNG	
Office Action Summary	Examin r	Art Unit	
	Deborah Yee	1742	
The MAILING DATE of this communication a Period for Reply	appears on the cov r she t	with the correspondence address	
A SHORTENED STATUTORY PERIOD FOR REF THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a r - If NO period for reply is specified above, the maximum statutory perior - Failure to reply within the set or extended period for reply will, by stat - Any reply received by the Office later than three months after the ma earned patent term adjustment. See 37 CFR 1.704(b). Status	N. 1.136(a). In no event, however, may eply within the statutory minimum of t od will apply and will expire SIX (6) Me tute, cause the application to become	a reply be timely filed nirty (30) days will be considered timely. DNTHS from the mailing date of this communicatio. ABANDONED (35 U.S.C. § 133).	n.
1) Responsive to communication(s) filed on 22	September 2003.		
2a)⊠ This action is FINAL . 2b)□ Th	is action is non-final.		
3) Since this application is in condition for allow closed in accordance with the practice unde			\$
Disposition of Claims			
4)⊠ Claim(s) <u>1-8</u> is/are pending in the application			
4a) Of the above claim(s) is/are withd	rawn from consideration.		
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>1-8</u> is/are rejected. 7)□ Claim(s) is/are objected to.			•
8) Claim(s) are subject to restriction and	I/or election requirement		
Application Papers			
9) The specification is objected to by the Exami	ner		
10)⊠ The drawing(s) filed on <u>22 September 2003</u> i		☐ objected to by the Examiner.	
Applicant may not request that any objection to the			•
Replacement drawing sheet(s) including the corre	ection is required if the drawir	ng(s) is objected to. See 37 CFR 1.121(d).
11) The oath or declaration is objected to by the	Examiner. Note the attach	ed Office Action or form PTO-152.	
Priority under 35 U.S.C. §§ 119 and 120			
12)☐ Acknowledgment is made of a claim for fore a)☐ All b)☐ Some * c)☐ None of: 1.☐ Certified copies of the priority docume	,	. § 119(a)-(d) or (f).	
2. Certified copies of the priority docume		Application No	
 Copies of the certified copies of the prapplication from the International Bure 	eau (PCT Rule 17.2(a)).	,	•
* See the attached detailed Office action for a li 13)☐ Acknowledgment is made of a claim for dome			ion)
since a specific reference was included in the 37 CFR 1.78.	first sentence of the specif	ication or in an Application Data She	
 a) ☐ The translation of the foreign language p 14) ☐ Acknowledgment is made of a claim for dome 	* *		
reference was included in the first sentence of			
Attachment(s)			•
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s)	5) D Notice o	Summary (PTO-413) Paper No(s) Informal Patent Application (PTO-152)	

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DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1 to 8 are rejected under 35 U.S.C. 103(a) as being unpatentable over Japanese patent 2742948 or Japanese patent 7-242935 for the reasons set forth in the previous office action of paper no.17 dated June 18, 2003.

Response to Arguments

Applicant's arguments filed September 22, 2003 have been fully considered but they are not persuasive. JP'948 discloses a martensitic steel alloy with constituents whose wt% ranges overlap those recited by the claims, and more specifically, prior art example 9 meets the claimed composition except for a slightly lower N amount of 0.081%. It was argued that the present invention alloy requires 0.11 to .25% N and that such a large amount of N is required to minimize the content of Cr23C6 to improve corrosion resistance. Contrary to this argument, it is the examiner's position that lines 17 to 22 on page 7 of applicant's specification discloses that only a lower limit of 0.04%N is required to achieve the effect of minimizing Cr23C6 to improve corrosion rather than the 0.11% stated by applicant. Hence claims would not patentably distinguish over claims since criticality of 0.11 to 0.25% N has not been established (e.g. by comparative test data).

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of proof to the contrary.

Same argument above can also apply to JP'935. Applicant has not established criticality of the narrow N range of 0.11 to 0.25% since his specification discloses 0.04% N is sufficient to minimize the content of Cr23C6 to improve corrosion resistance, and because there are no comparative test examples to support criticality of 0.11% N. Hence the more narrowly define N range of 0.11 to 0.25% would not define patentable novelty of JP'935 broader N range of 0.01 to 0.25%. Moreover, specific example 244 on page 31 and 32 meets the claimed composition except contains 0.06% C whereas the present invention recites less than 0.06%C. Although the prior art does not disclose or suggest a steel composition in which the content of Cr23C6 is minimized, such would

Conclusion

inherently occur because the compositional limitations are closely met, and in absence

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Deborah Yee whose telephone number is 703-308-1102. The examiner can normally be reached on Monday-Friday from 6:30 to 4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Roy King can be reached on 703-308-1146. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9310.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0661.

dy

DEBORAH YEE